

IN THE CLAIMS

1.(Original) A method for suctioning a boundary layer at a surface of an aircraft having an air-conditioning system, at whose flow-critical points of the surface multiple suction openings are provided for the boundary layer suctioning, the method comprising the step of:

feeding an air quantity suctioned from the surface to the air-conditioning system of the aircraft to reduce flow losses; and

discharging the air quantity suctioned to the atmosphere together with the exhaust air of the air-conditioning system via an outlet of the air-conditioning system.

2.(Original) The method of claim 1, the air-conditioning system having an air mixer, further comprising the step of:

feeding the air quantity suctioned to the air mixer unit of the air-conditioning system.

3.(Original) The method of claim 1, further comprising the step of:

feeding the air quantity suctioned to a conduit connection which connects a plurality of fresh air outlets of the air-conditioning system to the air mixer unit.

4.(Original) The method of claim 3, further comprising the step of:

feeding the air quantity suctioned to a line connection assigned to the unpressurized line region.

5.(Original) The method of claim 1, further comprising the step of:

bringing the air quantity suctioned to cabin pressure before introducing the air quantity into a cabin region of the aircraft.

6.(Original) The method of claim 1, further comprising the step of:

adjusting at least one of a temperature and humidity of the air quantity suctioned in the air-conditioning system.

7.(Original) A device for suctioning a boundary layer at a surface of an aircraft having an air-conditioning system by using suction openings for boundary layer suctioning, the openings being positioned at flow-critical points of the surface, the device comprising:

a duct system and an exhaust;

wherein the duct system feeds an air quantity suctioned from the surface to the air-conditioning system of the aircraft to reduce flow losses; and

wherein the exhaust is adapted such that the air quantity suctioned exits to the atmosphere together with the exhaust air of the air-conditioning system via an outlet of the air-conditioning system.

8.(Currently amended) The device of claim 7,

wherein the air conditioning system includes an air mixer and the duct system is adapted to transport the air quantity suctioned discharges into the air mixer ~~an air mixer unit of the air-conditioning system.~~

9.(Currently amended) The device of claim 7, further comprising:

a compression unit;

wherein the compression unit is integrated into the duct system and ~~is adapted to bring~~ the air quantity suctioned is brought to cabin pressure by the compression unit before introduction into the air-conditioning system.

10.(Currently amended) The device of claim 7,

wherein the suction openings are positioned in ~~[[the]]~~ a flow-critical region of at least one of a wing assembly surface or a ~~[[and]]~~ tail assembly surface ~~as flow-critical points of the surface.~~

11.(Original) The device of claim 7, further comprising:

a suction source;

wherein the duct system is connected to the suction source for generating a suction effect required for the suctioning.